



Edit an existing query or
compose a new query in the
Search Query Display.

Wed, 27 Jul 2005, 1:54:08 PM EST

Search Query Display

Select a search number (#)
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

#1 (target recognition) <and> radar <and> (range profiles)

#2 (target recognition) <and> radar <and> (range profiles)

#3 (target recognition) <and> radar <and> (range profiles)

#4 ((target recognition) <and> radar <and> (range profiles))
<and>...



Welcome United States Patent and Trademark Office

☐ Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

SUPPORT

Results for "((target recognition) <and> radar <and> (range profiles)) <and> helicopters"

Your search matched 7 of 1198558 documents.

e-mail
 printer

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» Search Options

[View Session History](#)
[New Search](#)

Modify Search


☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard


Select Article Information

- ☐ 1. **Use of wideband waveforms for target recognition with surveillance radars**
Linde, G.;
Radar Conference, 2000. The Record of the IEEE 2000 International
7-12 May 2000 Page(s):128 - 133
Digital Object Identifier 10.1109/RADAR.2000.851817
[AbstractPlus](#) | Full Text: [PDF](#)(476 KB) IEEE CNF
- ☐ 2. **Radar target recognition by fuzzy logic**
Colin, N.; Moruzzis, M.;
Radar Conference, 1997., IEEE National
13-15 May 1997 Page(s):257 - 262
Digital Object Identifier 10.1109/NRC.1997.588316
[AbstractPlus](#) | Full Text: [PDF](#)(428 KB) IEEE CNF
- ☐ 3. **Computer simulation of target backscattering as element of perspective radar desi**
Leshchenko, S.P.; Orlenko, V.M.; Shirman, Y.D.;
Antenna Theory and Techniques, 2003. IVth International Conference on
Volume 1, 9-12 Sept. 2003 Page(s):389 - 393 vol.1
Digital Object Identifier 10.1109/ICATT.2003.1239239
[AbstractPlus](#) | Full Text: [PDF](#)(435 KB) IEEE CNF
- ☐ 4. **A novel subgridding scheme based on a combination of the finite-element and fini**
difference time-domain methods
Monorchio, A.; Mittra, R.;
Antennas and Propagation, IEEE Transactions on
Volume 46, Issue 9, Sept. 1998 Page(s):1391 - 1393
Digital Object Identifier 10.1109/8.719987
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(152 KB) IEEE JNL
- ☐ 5. **Iterated wavelet transformation and signal discrimination for HRR radar target**
recognition
Nelson, D.E.; Starzyk, J.A.; Ensley, D.D.;
Systems, Man and Cybernetics, Part A, IEEE Transactions on
Volume 33, Issue 1, Jan. 2003 Page(s):52 - 57
Digital Object Identifier 10.1109/TSMCA.2003.808253
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(360 KB) IEEE JNL
- ☐ 6. **Three-dimensional SAR imaging of a ground moving target using the InISAR techn**
Qun Zhang; Tat Soon Yeo;
Geoscience and Remote Sensing, IEEE Transactions on

Volume 42, Issue 9, Sept. 2004 Page(s):1818 - 1828

Digital Object Identifier 10.1109/TGRS.2004.831863

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(816 KB\)](#) IEEE JNL

- ☐ 7. **Advantages and problems of wideband radar**
Shirman, Y.D.; Leshchenko, S.P.; Orlenko, V.M.;
Radar Conference, 2003. Proceedings of the International
3-5 Sept. 2003 Page(s):15 - 21
Digital Object Identifier 10.1109/RADAR.2003.1278703
[AbstractPlus](#) | Full Text: [PDF\(545 KB\)](#) IEEE CNF
- 

Indexed by
 Inspec

[Help](#) [Contact Us](#) [Privacy & Security](#)

© Copyright 2005 IEEE – All Rights

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	50	("4809931" "5392047" "5379041" "5344100" "5381152" "5436847" "5451957" "4828376" "5810285" "4801110" "5689268" "5371581" "5415364" "6448924" "4029271" "5275362" "5398890" "6278409" "3896446" "4038656" "4346382" "4389647" "4422757" "4603388" "4887087" "4916581" "5017922" "5018698" "5295643" "5347282" "5376940" "5614907" "5777573" "5814753" "5970393" "6101431" "6515613" "6542227" "6556282" "6650407" "6831592" "5812083" "4392781" "5785282" "5788191" "5943476" "6137436" "3581090" "4868567" "5859597").pn.	US-PGPUB; USPAT	OR	OFF	2005/07/27 08:51
L2	638	(helicopter\$1) with (class\$ or ident\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 08:52
L3	1420	aspect adj1 angle\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 09:00
L4	7	2 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 09:00
L5	0	("2004/0239556").URPN.	USPAT	OR	OFF	2005/07/27 10:16
L6	1	"4603331".pn.	USPAT	OR	OFF	2005/07/27 10:16
L7	30	("2602836" "2922123" "3119999" "3140486" "3404399" "3480884" "3898658" "3924182" "3984802" "4053891" "4106014").PN. OR ("4603331").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/27 10:18
L8	9	("3984802" "3992710" "4470048" "4490718" "4603331").PN. OR ("5012252").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/27 10:32
L9	932	342/90.ccls. or 342/192.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33
L10	424427	helicopter\$1 or rotor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33

L11	1420	(aspect adj1 angle\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33
L12	5	9 and 10 and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33

Dial · g DataStar.[options](#)[logout](#)[feedback](#)[help](#)[databases](#)[easy search](#)**Advanced Search: INSPEC - 1969 to date (INZZ)**[limit](#)

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	helicopter AND classification	unrestricted	96	show titles
2	INZZ	aspect ADJ angles	unrestricted	273	show titles
3	INZZ	1 AND 2	unrestricted	1	show titles
4	INZZ	helicopters	unrestricted	3074	show titles
5	INZZ	2 AND 4	unrestricted	1	show titles

[hide](#) | [delete all search steps...](#) | [delete individual search steps...](#)Enter your search term(s): [Search tips](#)

 Information added since: or:
[search](#)

Select special search terms from the following list(s):

- ☒ Publication year
- ☒ Classification codes A: Physics, 0-1
- ☒ Classification codes A: Physics, 2-3
- ☒ Classification codes A: Physics, 4-5
- ☒ Classification codes A: Physics, 6
- ☒ Classification codes A: Physics, 7
- ☒ Classification codes A: Physics, 8
- ☒ Classification codes A: Physics, 9
- ☒ Classification codes B: Electrical & Electronics, 0-5
- ☒ Classification codes B: Electrical & Electronics, 6-9
- ☒ Classification codes C: Computer & Control
- ☒ Classification codes D: Information Technology
- ☒ Classification codes E: Manufacturing & Production
- ☒ Tr tment codes

Dial g DataStar

options

logout

feedback

help



databases

search
page

titles

Document

Select the documents you wish to save or order by clicking the box next to the document, or click the link above the document to order directly.

save

locally as: PDF document



search strategy: do not include the search strategy



order

☒ document 1 of 1 [Order Document](#)

INSPEC - 1969 to date (INZZ)

Accession number & update

8256012, B2005-02-7950-053; 20050123.

Title

ISAR imaging of flying helicopters at millimeter-wave frequencies.

Author(s)

Hagelen-M; Wahlen-A; Brehm-T.

Author affiliation

Dept Millimeterwave & Seeker Radar, FGAN Res Inst for High-Frequency Phys & Radar Technique, Wachtberg, Germany.

Source

Conference Proceedings. 1st European Radar Conference, Amsterdam, Netherlands, 14-15 Oct. 2004.
In: p.265-8, 2004.

Publication year

2004.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

The advantages of radar systems operating at millimeter-wave frequencies can be used for imaging flying objects, e.g. helicopters, by means of the ISAR principle. Using this technique, it is possible to deliver a data base, which contains high resolution scatterer distributions of different targets and for different **aspect angles**. Under civil war conditions, this data can be compared with ISAR images of approaching targets in order to distinguish between friendly and threat vehicles: (10 refs).

Descriptors

backscatter; helicopters; image-classification; image-resolution;
millimetre-wave-imaging; radar-imaging; synthetic-aperture-radar.

Keywords

target **classification**; mm wave ISAR imaging; flying **helicopter** imaging; flying object imaging; high resolution target scatterer distributions; civil war conditions; friendly threat vehicle discrimination; 10 GHz; 35 GHz; 94 GHz; 800 MHz.

Classification codes

B7950 (Military radar, detection and tracking systems).
B6135 (Optical, image and video signal processing).
B6320 (Radar equipment, systems and applications).

Numerical indexing

bandwidth: 8.0E+08 Hz;

frequency: 1.0E+10 Hz, 3.5E+10 Hz, 9.4E+10 Hz.

Copyright statement

Copyright 2005, IEE.

COPYRIGHT BY Inst. of Electrical Engineers, Stevenage, UK

save

locally as: PDF document



search strategy: do not include the search strategy



order

Top - News & FAQs - Dialog

© 2005 Dialog



Wed, 27 Jul 2005, 8:47:24 AM EST

Edit an existing query or
compose a new query in the
Search Query Display.

Search Query Display

Select a search number (#)
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

- [#1](#) ((helicopters <and> imaging or classification)<in>metadata)
- [#2](#) ((aspect angles)<in>metadata)
- [#3](#) ((aspect angles)<in>metadata)
- [#4](#) 1 and 2
- [#5](#) #1 and #2
- [#6](#) (#1) and (#2)
- [#7](#) 1 <and> 2
- [#8](#) (helicopters <and> (classification or imaging)) <and> (aspect angles...



Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)[SUPPORT](#)

Results for "(helicopters <and> (classification or imaging)) <and> (aspect angles)"

Your search matched 23 of 1198558 documents.

e-mail
 print

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

(helicopters <and> (classification or imaging)) <and> (aspect angles)


☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

Select Article Information

- ☐ 1. **On the scattering mechanism of power lines at millimeter-waves**
Essen, H.; Boehmsdorff, S.; Biegel, G.; Wahlen, A.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 40, Issue 9, Sept. 2002 Page(s):1895 - 1903
Digital Object Identifier 10.1109/TGRS.2002.805144
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(1405 KB) IEEE JNL
- ☐ 2. **Extraction of power line maps from millimeter-wave polarimetric SAR images**
Sarabandi, K.; Park, M.;
Antennas and Propagation, IEEE Transactions on
Volume 48, Issue 12, Dec. 2000 Page(s):1802 - 1809
Digital Object Identifier 10.1109/8.901268
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(220 KB) IEEE JNL
- ☐ 3. **A comparison of Markov and constant turn rate models in an adaptive Kalman filter tracker**
Bauschlicher, J.; Asher, R.; Dayton, D.;
Aerospace and Electronics Conference, 1989. NAECON 1989., Proceedings of the IEEE
National
22-26 May 1989 Page(s):116 - 123 vol.1
Digital Object Identifier 10.1109/NAECON.1989.40200
[AbstractPlus](#) | Full Text: [PDF](#)(252 KB) IEEE CNF
- ☐ 4. **Automatic segmentation of multiple VHF-band SAR images to improve stem volume retrieval**
Folkesson, K.; Smith, G.; Ulander, L.M.H.;
Geoscience and Remote Sensing Symposium, 2004. IGARSS '04. Proceedings. 2004 IE
International
Volume 1, 20-24 Sept. 2004 Page(s):519 - 522
Digital Object Identifier 10.1109/IGARSS.2004.1369078
[AbstractPlus](#) | Full Text: [PDF](#)(1538 KB) IEEE CNF
- ☐ 5. **Stem volume retrieval at stand level using multiple low-frequency SAR images**
Folkesson, K.; Smith, G.; Ulander, L.M.H.;
Geoscience and Remote Sensing Symposium, 2003. IGARSS '03. Proceedings. 2003 IE
International
Volume 4, 21-25 July 2003 Page(s):2556 - 2558 vol.4
Digital Object Identifier 10.1109/IGARSS.2003.1294507
[AbstractPlus](#) | Full Text: [PDF](#)(2309 KB) IEEE CNF

- ☐ 6. **The military applications of remote sensing by infrared**
Hudson, R.D., Jr.; Hudson, J.W.;
Proceedings of the IEEE
Volume 63, Issue 1, Jan. 1975 Page(s):104 - 128
[AbstractPlus](#) | Full Text: [PDF](#)(2909 KB) IEEE JNL
- ☐ 7. **Birds and insects as radar targets: A review**
Vaughn, C.R.;
Proceedings of the IEEE
Volume 73, Issue 2, Feb. 1985 Page(s):205 - 227
[AbstractPlus](#) | Full Text: [PDF](#)(2770 KB) IEEE JNL
- ☐ 8. **Analysis of doppler measurements of ground vehicles**
Kjellgren, J.; Gadd, S.; Jonsson, N.; Gustavsson, J.;
Radar Conference, 2005 IEEE International
9-12 May 2005 Page(s):284 - 289
[AbstractPlus](#) | Full Text: [PDF](#)(422 KB) IEEE CNF
- ☐ 9. **A Doppler-based target classifier using linear discriminants and principal compon**
Stove, A.G.; Sykes, S.R.;
Radar Conference, 2003. Proceedings of the International
3-5 Sept. 2003 Page(s):171 - 176
Digital Object Identifier 10.1109/RADAR.2003.1278734
[AbstractPlus](#) | Full Text: [PDF](#)(463 KB) IEEE CNF
- ☐ 10. **A novel subgridding scheme based on a combination of the finite-element and fini
difference time-domain methods**
Monorchio, A.; Mittra, R.;
Antennas and Propagation, IEEE Transactions on
Volume 46, Issue 9, Sept. 1998 Page(s):1391 - 1393
Digital Object Identifier 10.1109/8.719987
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(152 KB) IEEE JNL
- ☐ 11. **Millimeter-wave radar phenomenology of power lines and a polarimetric detection
algorithm**
Sarabandi, K.; Moonsoo Park;
Antennas and Propagation, IEEE Transactions on
Volume 47, Issue 12, Dec. 1999 Page(s):1807 - 1813
Digital Object Identifier 10.1109/8.817656
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(324 KB) IEEE JNL
- ☐ 12. **Hybrid FM-polynomial phase signal modeling: parameter estimation and Cramer-F
bounds**
Gini, F.; Giannakis, G.B.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Proc
IEEE Transactions on]
Volume 47, Issue 2, Feb. 1999 Page(s):363 - 377
Digital Object Identifier 10.1109/78.740122
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(864 KB) IEEE JNL
- ☐ 13. **Survey of maneuvering target tracking. Part I. Dynamic models**
Rong Li, X.; Jilkov, V.P.;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 39, Issue 4, Oct. 2003 Page(s):1333 - 1364
Digital Object Identifier 10.1109/TAES.2003.1261132
[AbstractPlus](#) | Full Text: [PDF](#)(881 KB) IEEE JNL
- ☐ 14. **A radar cross-section model for power lines at millimeter-wave frequencies**
Sarabandi, K.; Moonsoo Park;
Antennas and Propagation, IEEE Transactions on

Volume 51, Issue 9, Sep 2003 Page(s):2353 - 2360

Digital Object Identifier 10.1109/TAP.2003.816380

[AbstractPlus](#) | Full Text: [PDF\(772 KB\)](#) IEEE JNL

- ☐ **15. Joint utilization of incoherently and coherently integrated radar signal in helicopter categorization**
Tikkinen, J.M.; Helander, E.E.; Visa, A.;
Radar Conference, 2005 IEEE International
9-12 May 2005 Page(s):540 - 545
[AbstractPlus](#) | Full Text: [PDF\(148 KB\)](#) IEEE CNF

- ☐ **16. Overview of directed energy weapon developments**
Weise, Th.H.G.G.; Jung, M.; Langhans, D.; Gowin, M.;
Electromagnetic Launch Technology, 2004. 2004 12th Symposium on
25-28 May 2005 Page(s):483 - 489
Digital Object Identifier 10.1109/ELT.2004.1398128
[AbstractPlus](#) | Full Text: [PDF\(1541 KB\)](#) IEEE CNF

- ☐ **17. Overview of sensor fusion research at RDECOM - NVESD & recent results on vehicle detection using multiple sensor nodes**
Perconti, P.; Loew, M.; Hilger, J.;
Information Fusion, 2003. Proceedings of the Sixth International Conference of
Volume 1, 2003 Page(s):492 - 498
[AbstractPlus](#) | Full Text: [PDF\(883 KB\)](#) IEEE CNF

- ☐ **18. Quick response airborne deployment of VIPER muzzle flash detection and location system during DC sniper attacks**
Pauli, M.; Ertem, M.C.; Heidhausen, E.;
Applied Imagery Pattern Recognition Workshop, 2003. Proceedings. 32nd
15-17 Oct. 2003 Page(s):221 - 225
Digital Object Identifier 10.1109/AIPR.2003.1284275
[AbstractPlus](#) | Full Text: [PDF\(290 KB\)](#) IEEE CNF

- ☐ **19. The APAR multifunction radar - system overview**
Smiths, A.B.; van Genderen, P.;
Phased Array Systems and Technology, 2003. IEEE International Symposium on
14-17 Oct. 2003 Page(s):241 - 246
Digital Object Identifier 10.1109/PAST.2003.1256988
[AbstractPlus](#) | Full Text: [PDF\(416 KB\)](#) IEEE CNF

- ☐ **20. Analysis of slope failures due to the 2000 Tokai Heavy Rainfall using high resolution satellite images**
Kawamura, M.; Tsujino, K.; Tsujiko, Y.;
Geoscience and Remote Sensing Symposium, 2003. IGARSS '03. Proceedings. 2003 IEEE International
Volume 4, 21-25 July 2003 Page(s):2413 - 2418 vol.4
Digital Object Identifier 10.1109/IGARSS.2003.1294459
[AbstractPlus](#) | Full Text: [PDF\(2328 KB\)](#) IEEE CNF

- ☐ **21. Advanced synthetic aperture radar imaging and feature analysis**
Chen, V.C.; Lipps, R.; Bottoms, M.;
Radar Conference, 2003. Proceedings of the International
3-5 Sept. 2003 Page(s):22 - 29
Digital Object Identifier 10.1109/RADAR.2003.1278704
[AbstractPlus](#) | Full Text: [PDF\(575 KB\)](#) IEEE CNF

- ☐ **22. Radar target recognition by fuzzy logic**
Colin, N.; Moruzzis, M.;
Radar Conference, 1997., IEEE National
13-15 May 1997 Page(s):257 - 262

Digital Object Identifier 10.1109/NRC.1997.588316

[AbstractPlus](#) | Full Text: [PDF](#)(428 KB) IEEE CNF

☐ **23. A 3D perspective for radar cross section visualization**

Preiss, B.; Tollefson, M.; Howard, R.;

Aerospace Conference, 1997. Proceedings., IEEE

Volume 2, 1-8 Feb. 1997 Page(s):95 - 112 vol.2

Digital Object Identifier 10.1109/AERO.1997.577624

[AbstractPlus](#) | Full Text: [PDF](#)(1632 KB) IEEE CNF



[Help](#) [Contact Us](#) [Privacy & Security](#)

© Copyright 2005 IEEE – All Rights

Indexed by
 Inspec